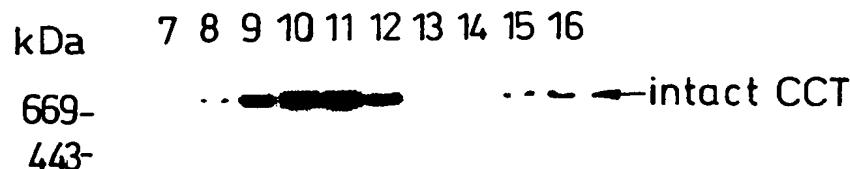


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APPROVED	O.G. FIG.
BY	CLASS SUBCLASS
DRAFTSHAH	

A



B



*Fig. 1*

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APPROVED	O.G. FIG.
BY	CLASS / SUBCLASS
DRAFTSMAN	

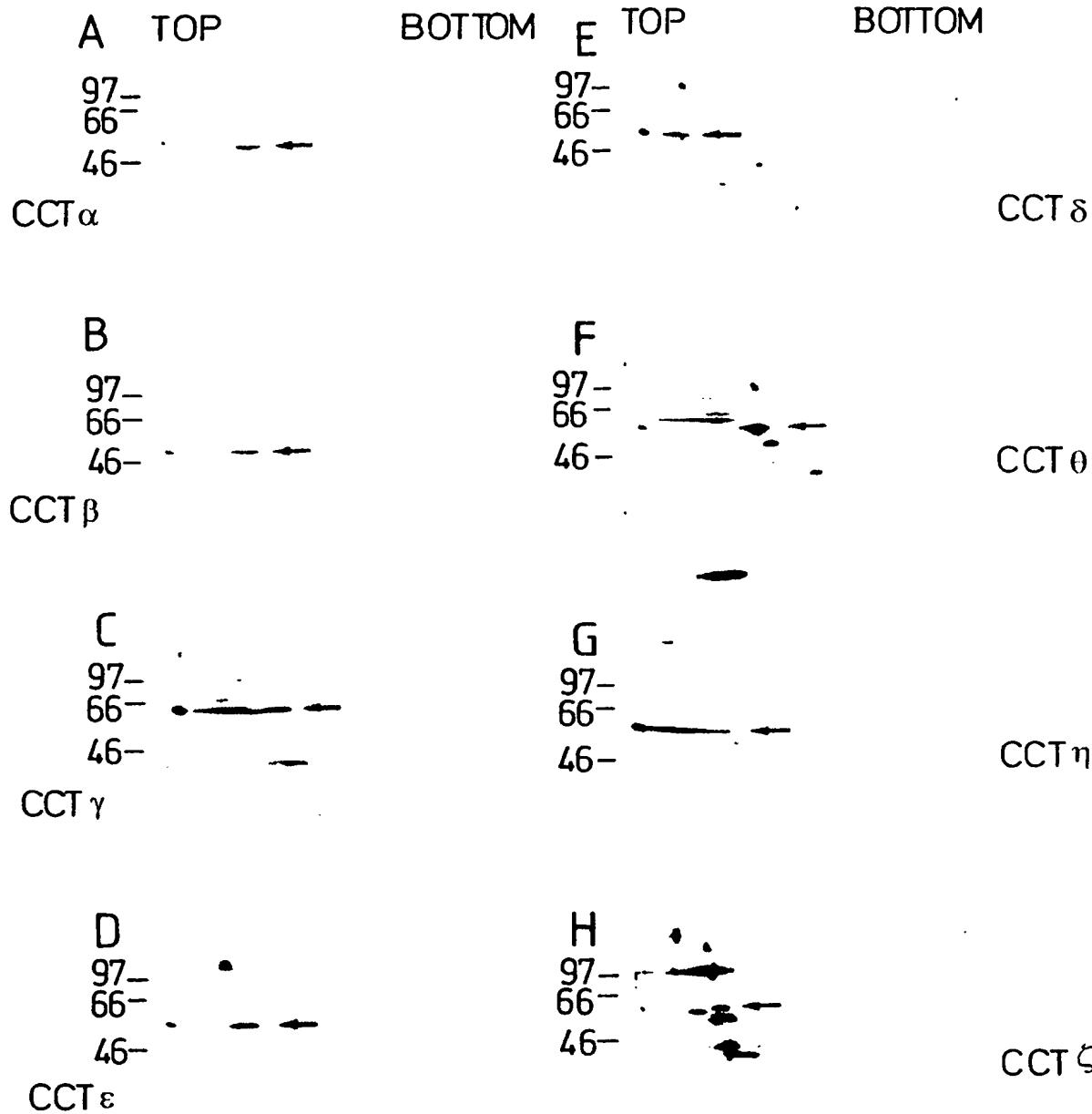


Fig 2

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APPROVED	O. G. FIG.
BY	CLASS
DRAFTSMAN	SUBCLASS

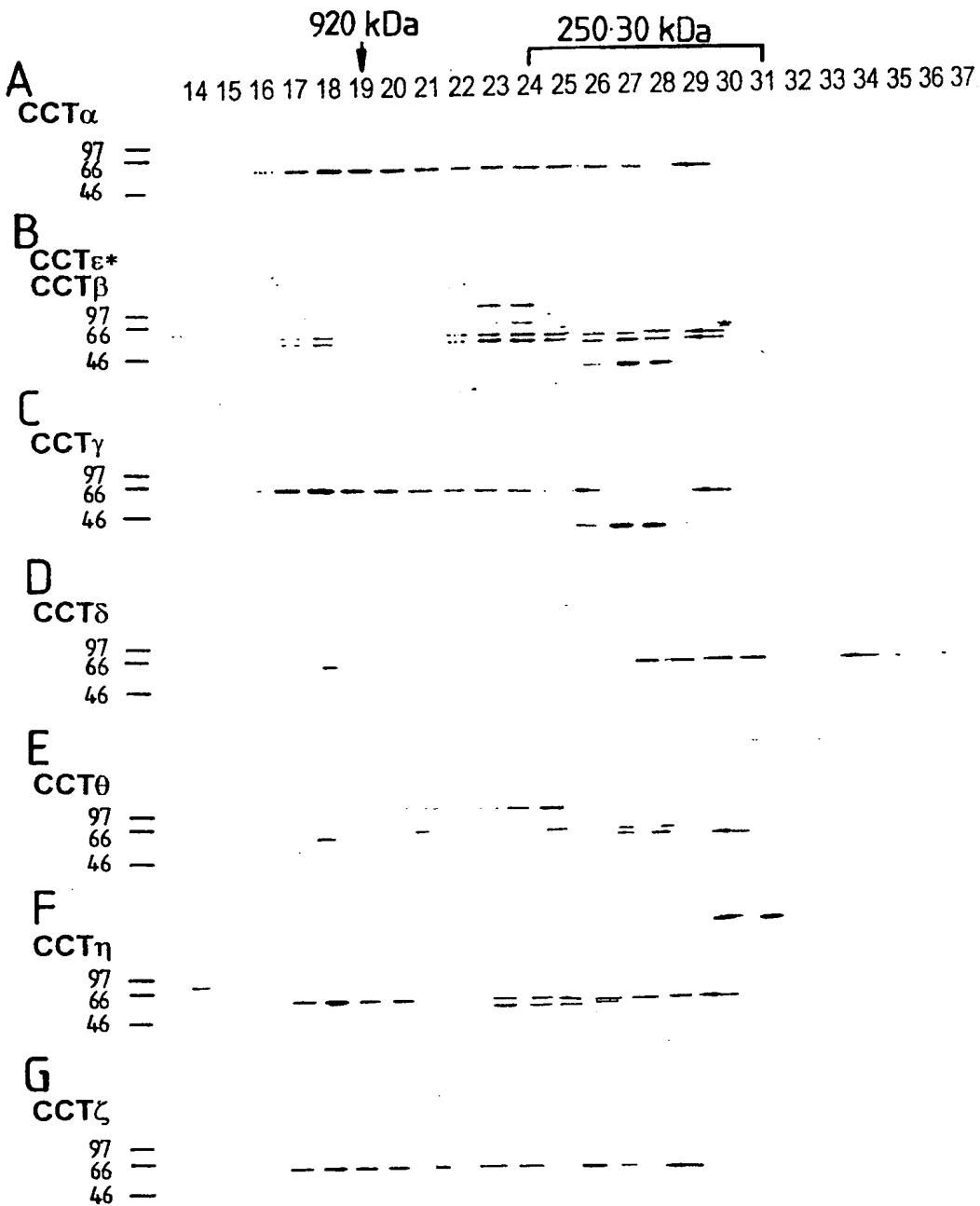


Fig. 3

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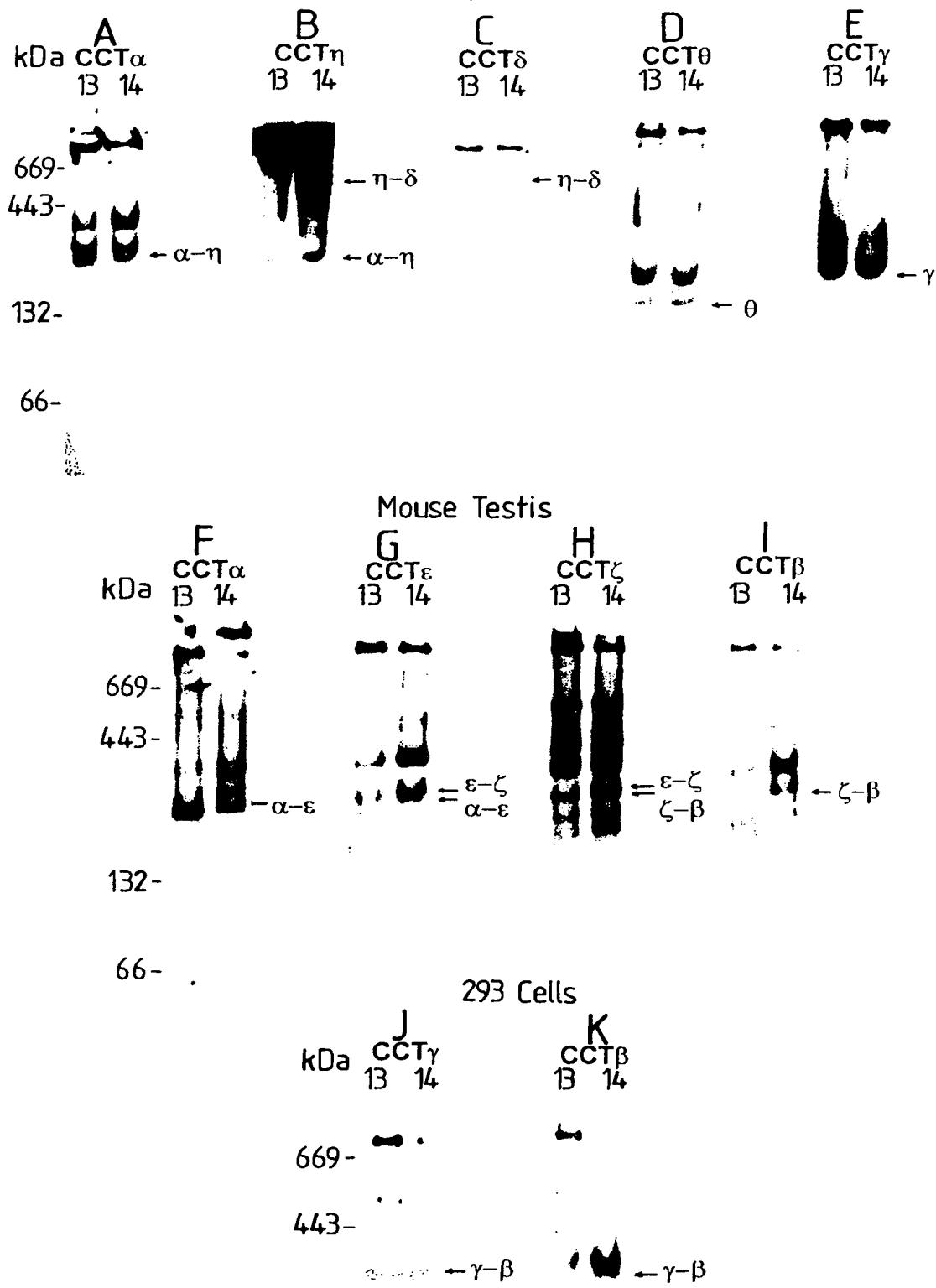
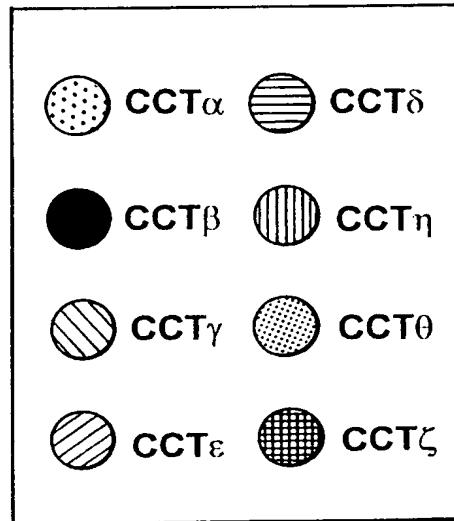
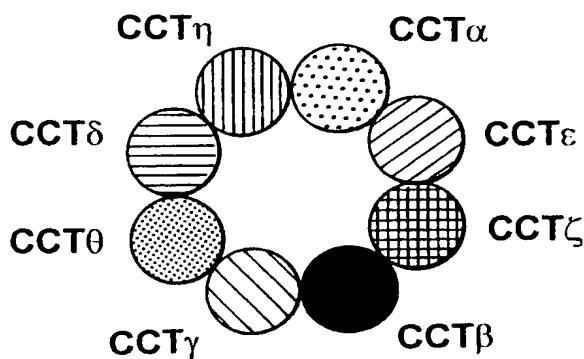


Fig 4

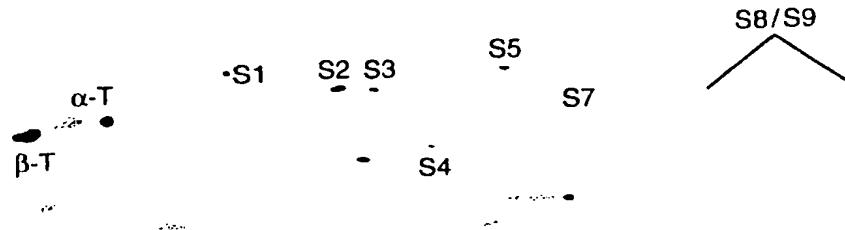
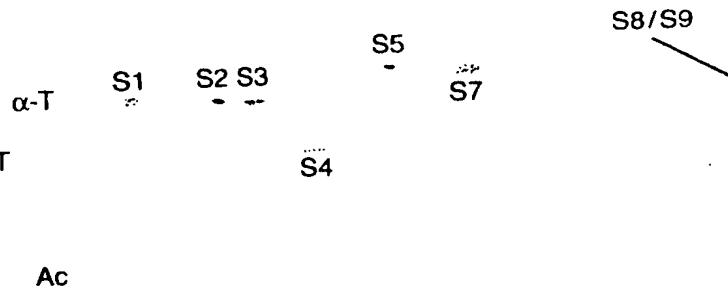
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APPROVED	O.G. FIG.
BY	CLASS
DRAFSMAN	SUBCLASS



*Fig. 5*

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**A****B****C***Fig 6*

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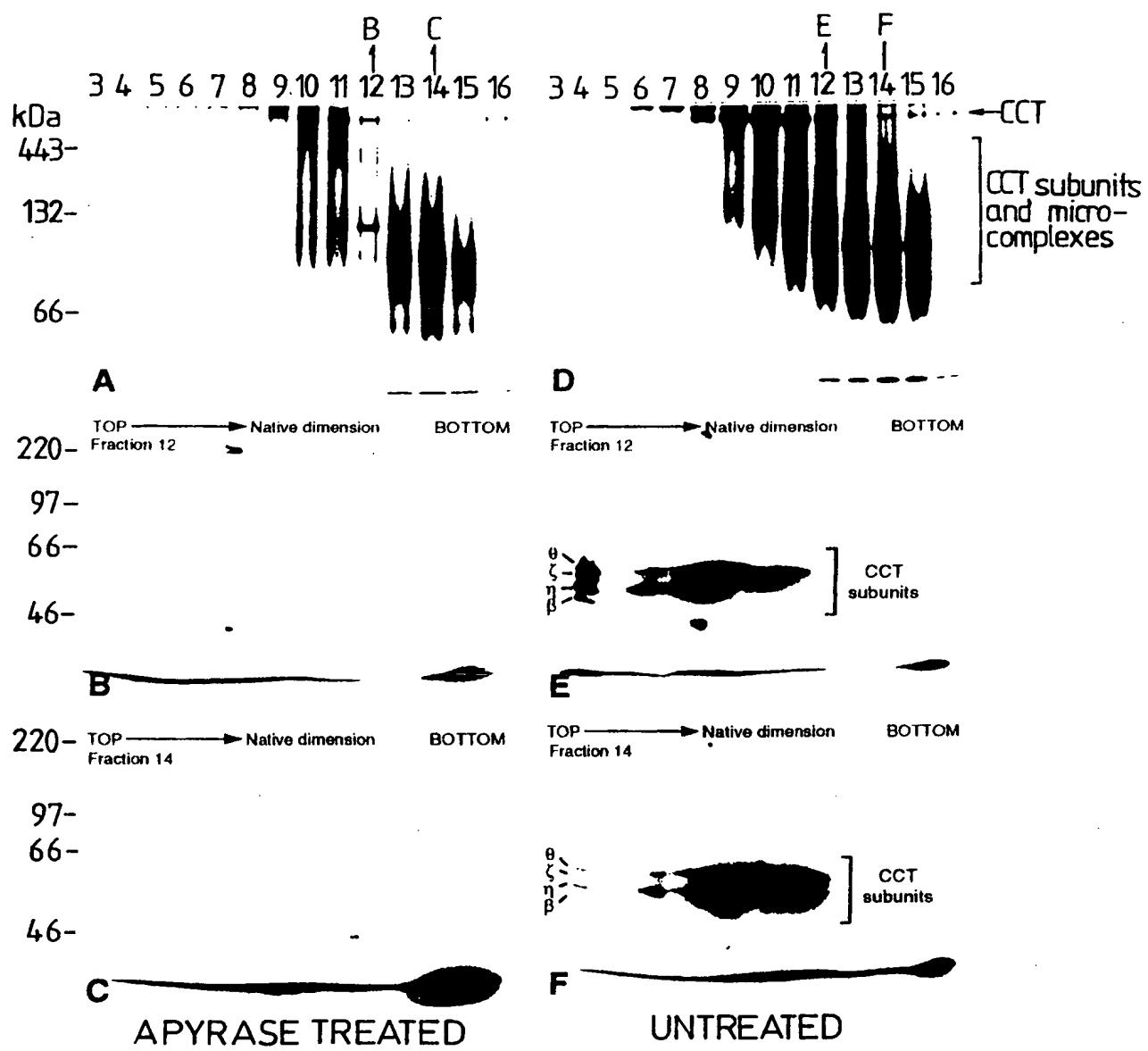


Fig. 7

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A

Rabbit CCT $\alpha$   
Mouse CCT $\alpha$   
Mutant

555

...AVHSGAL	D	D
...AVHSGAL	D	D
...AVHSGAL	N	D

B



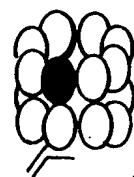
— DOUBLE SHIFT  
— SINGLE SHIFT  
— NO SHIFT

Two Antibody Molecules  
coupled onto CCT



Endogenous  
CCT

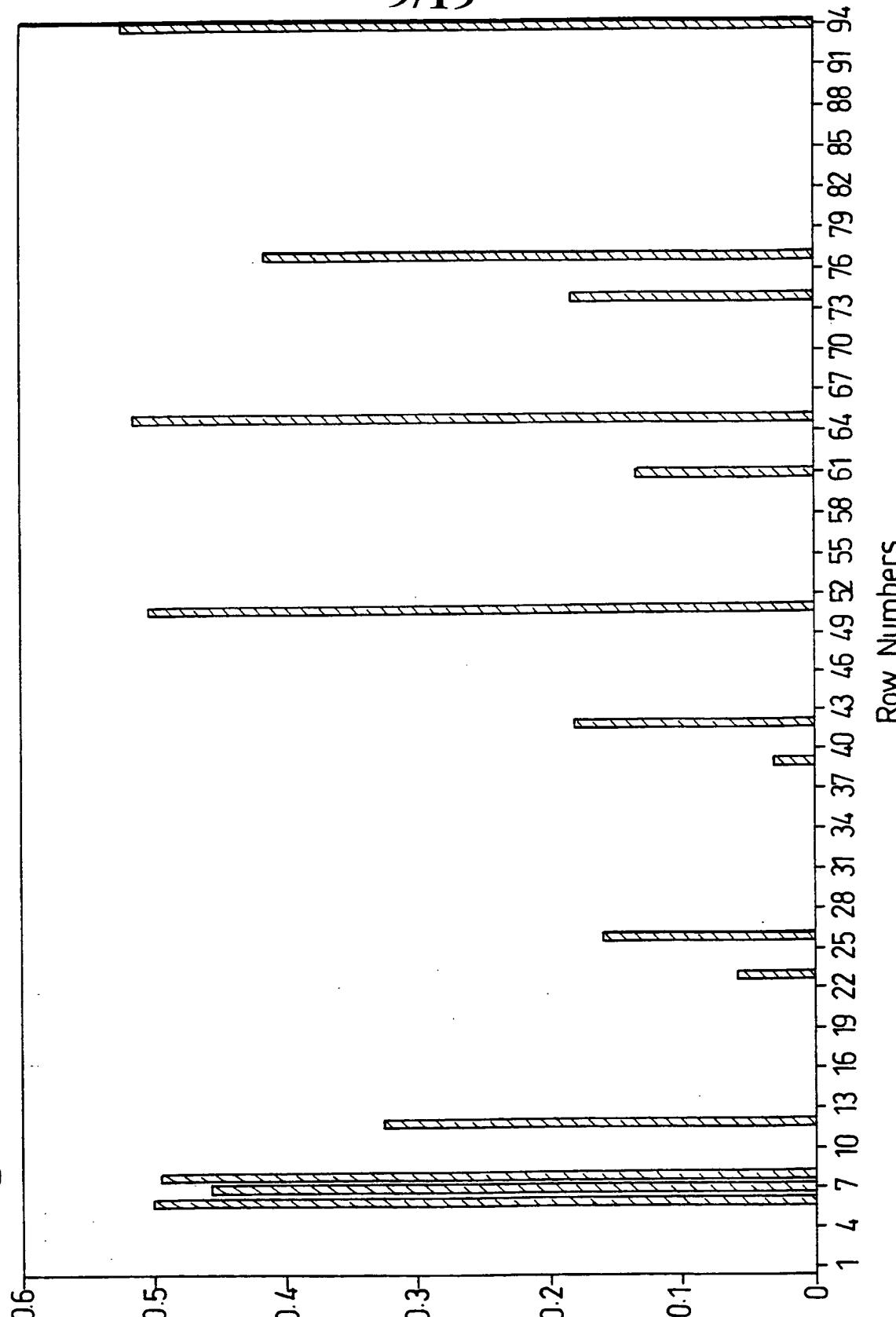
One Antibody Molecule  
coupled onto CCT



Mutant  
CCT

*Fig 8*

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Fig. 9  
data/actin PepSet

H1 blank/22.10.96

SUBSTITUTE SHEET (RULE 26)

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*Fig 10*

## Peptide Sequences

APPROVED	O. G. FIG.
BY	CLASS
DRAFTSMAN	SUBCLASS

Reference	Peptide No.	Peptide Sequence
Peptide No.	In Figure 11	
1	6	APRAVFPSIVGRPRH
2	7	FPSIVGRPRHQGVMV
3	8	GRPRHQGVMVGMGQK
4	61	GGTTMYPGIADRMQK
5	77	PRHQGVMVGMGQKDS
6	26	TFNTPAMYVAIQAVL
7	35	LPHAILRLDLAGRDL
8	70	LASLSTFQQMWISKQ
9	12	DEAQSKRGILTAKYP
10	28	IQAVLSLYASGRTTG
11	39	KILTERGYSFTTTAE
12	40	RGYSFTTTAEREIVR
13	47	ASSSSLEKSYELPDG
14	65	APSTMKIKIIAPPER
15	67	APPERKYSVWIGGSI

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APPROVED	O.G. FIG.
BY	CLASS
DRAFTSMAN	SUBCLASS

Lane 1 Peptide 8 at 13.3 $\mu$ M	(Biotin-SGSGGRPRHQGVGVGMGQK)
Lane 2 Peptide 8 at 1.33 $\mu$ M	(Biotin-SGSGGRPRHQGVGVGMGQK)
Lane 3 Peptide 8.1 at 13.3 $\mu$ M	(Biotin-SGSGARPRHQGVGVGMGQK)
Lane 4 Peptide 8.2 at 13.3 $\mu$ M	(Biotin-SGSGGAPRHQGVGVGMGQK)
Lane 5 Peptide 8.3 at 13.3 $\mu$ M	(Biotin-SGSGGRARHQGVGVGMGQK)
Lane 6 Peptide 8.4 at 13.3 $\mu$ M	(Biotin-SGSGGRPAHQGVGVGMGQK)
Lane 7 Peptide 8.5 at 13.3 $\mu$ M	(Biotin-SGSGGRPRAQGVGVGMGQK)
Lane 8 Peptide 8.6 at 13.3 $\mu$ M	(Biotin-SGSGAAAAAQGVGVGMGQK)

Fig. 11a

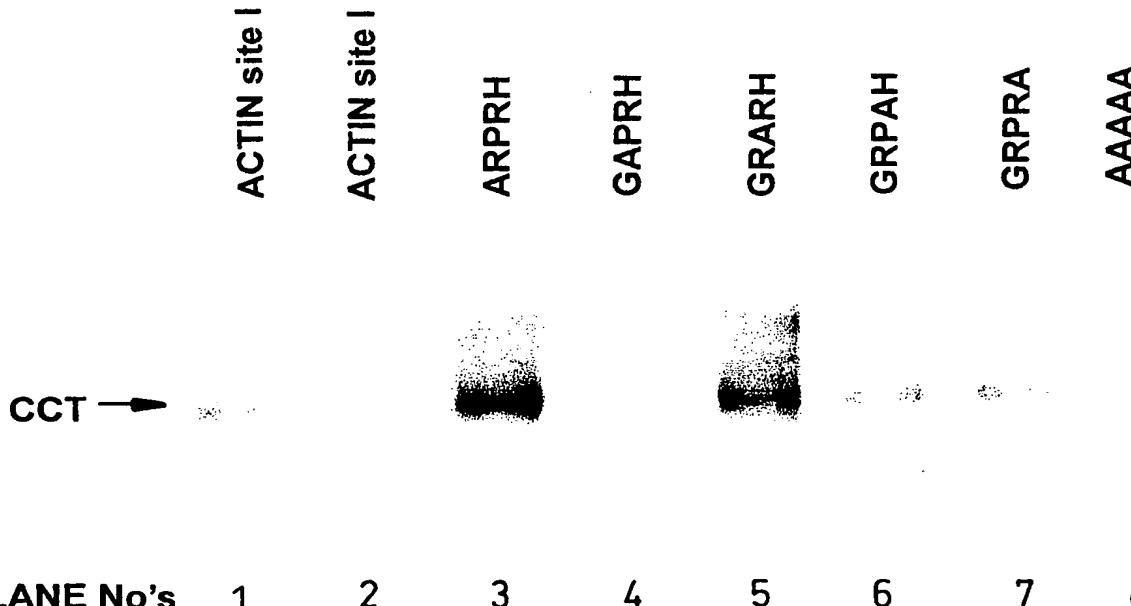
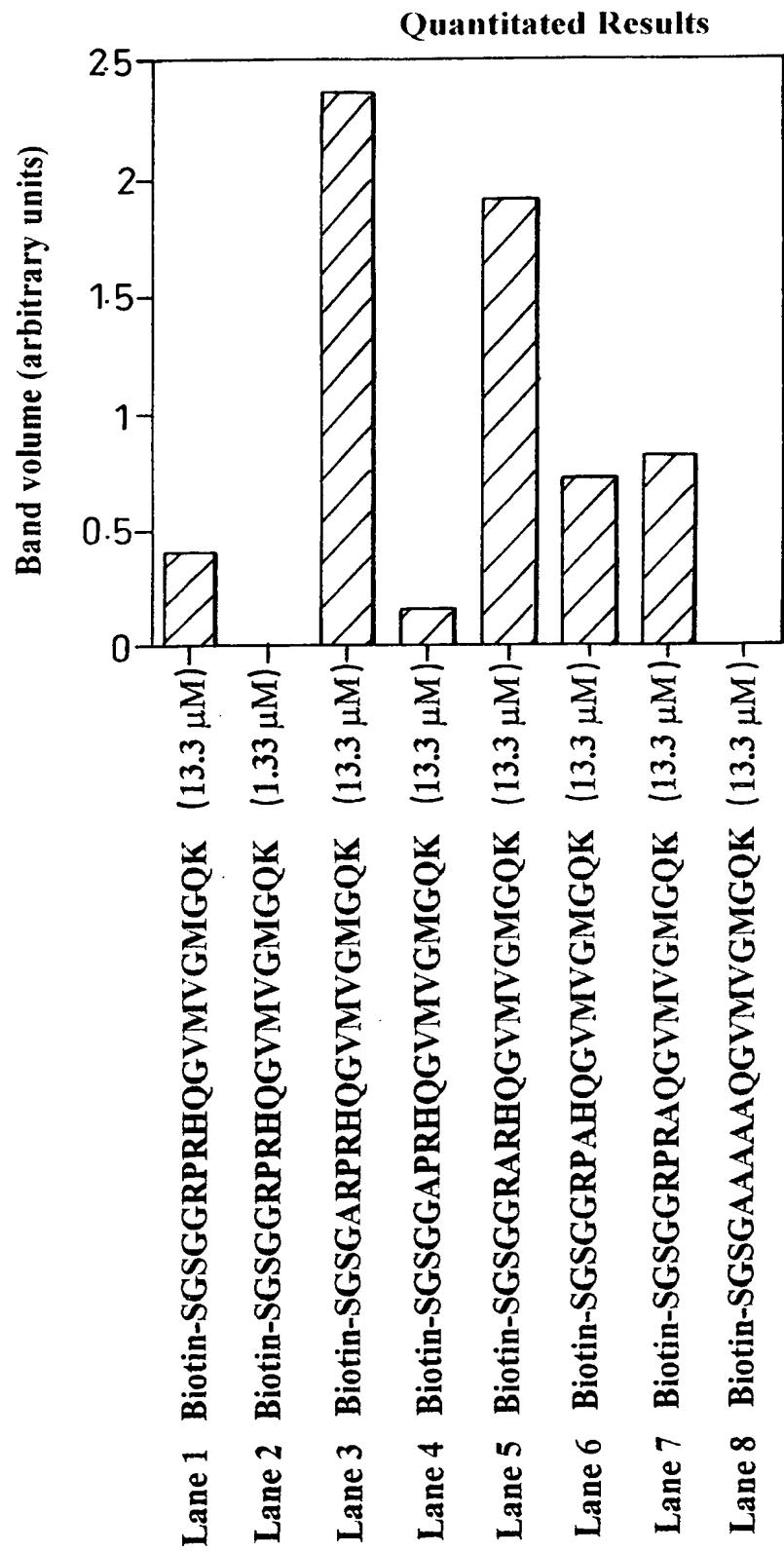


Fig 11b

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**Fig. 11c**

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APPROVED	O.G. FIG.
BY	GLASS SUBCLASS
DRAFTSMAN	

13 14 15 16 17 18

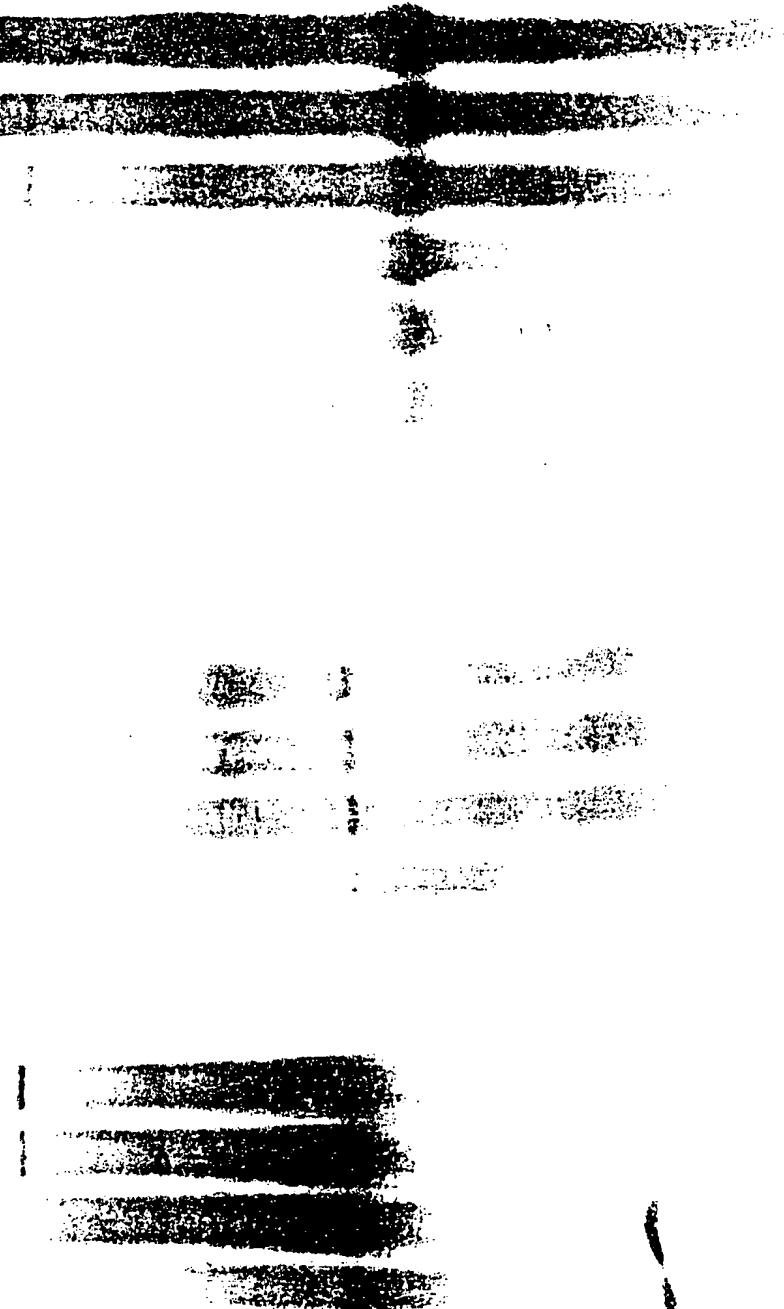
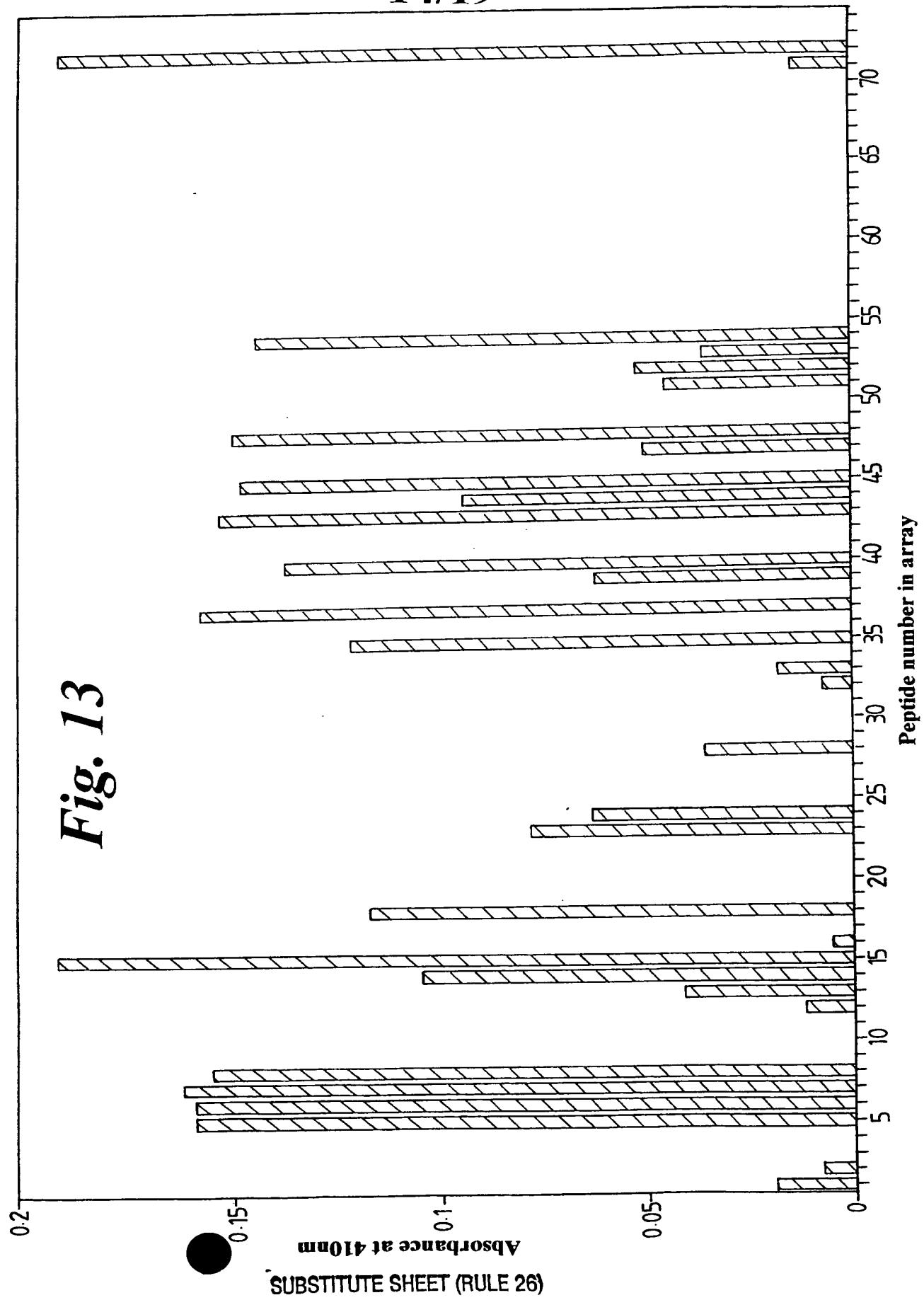
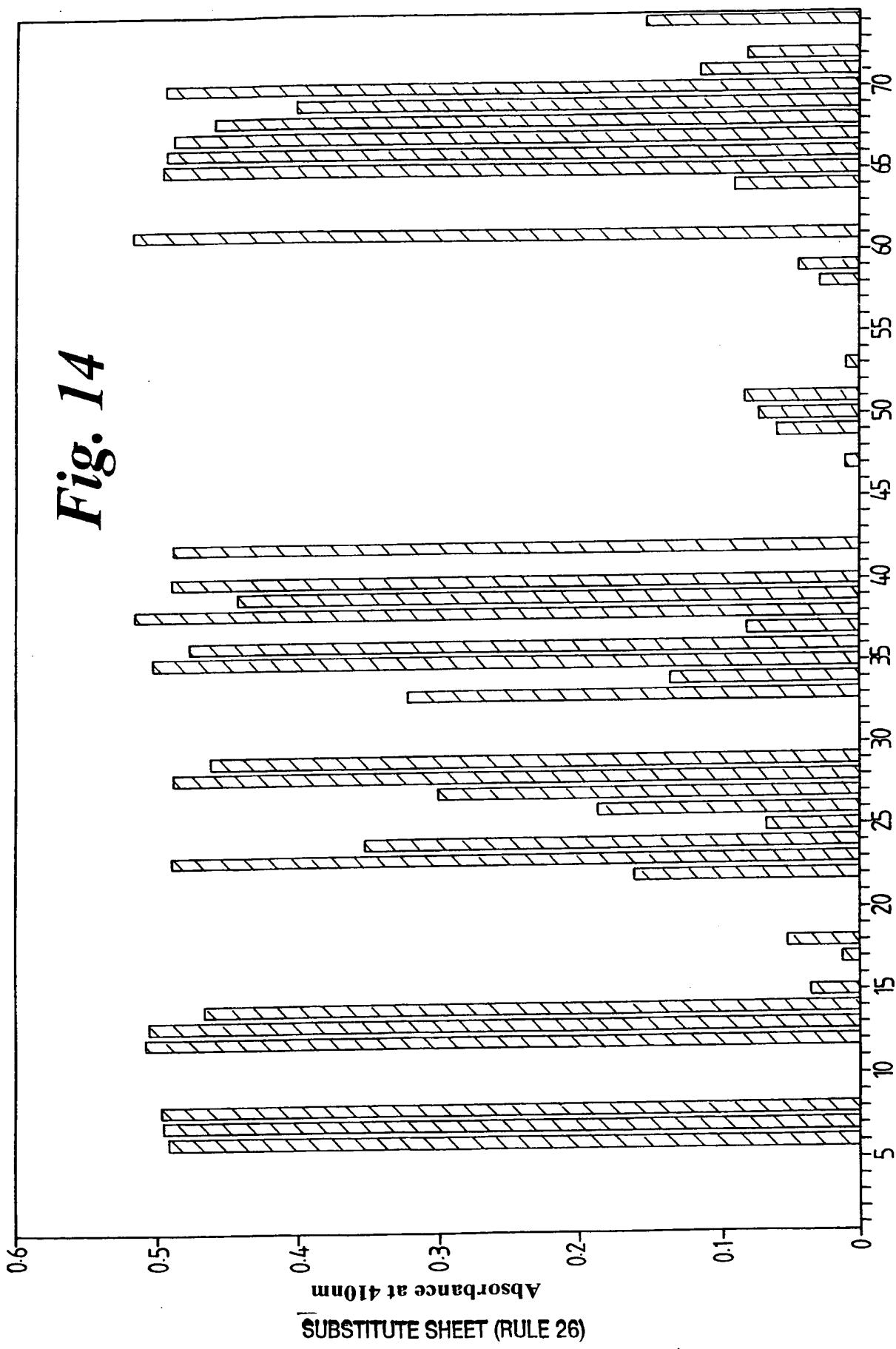


Fig. 12

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## TABLE 2

mouse beta actin - 15mer peptides with 5 residue overlap

1,	MDDDIAALVVDNGSG	= 1 - 15
2,	AALVVDNGSGMCKAG	= 6 - 20
3,	DNGSGMCKAGFAGDD	= 11 - 25
4,	MCKAGFAGDDAPRAV	= 16 - 30
5,	FAGDDAPRAVFPSIV	= 21 - 35
6,	APRAVFPSIVGRPRH	= 26 - 40
7,	FPSIVGRPRHQGVMV	= 31 - 45
8,	GRPRHQGVMVGMQK	= 36 - 50
9,	QGVMVGMQKDSYVG	= 41 - 55
10,	GMGQKDSYVGDEAQ	= 46 - 60
11,	DSYVGDEAQSKRGIL	= 51 - 65
12,	DEAQSKRGILTLKYP	= 56 - 70
13,	KRGILTLKYPIEHGI	= 61 - 75
14,	TLKYPIEHGIVTNWD	= 66 - 80
15,	IEHGIVTNWDDMEKI	= 71 - 85
16,	VTNWDDMEKIWHHTF	= 76 - 90
17,	DMEKIWHHTFYNELR	= 81 - 95
18,	WHHTFYNELRVAPEE	= 86 - 100
19,	YNELRVAPEEEHPVLL	= 91 - 105
20,	VAPEEEHPVLLTEAPL	= 96 - 110
21,	HPVLLTEAPLNPKAN	= 101 - 115
22,	TEAPLNPKANREKMT	= 106 - 120
23,	NPKANREKMTQIMFE	= 111 - 125
24,	REKMTQIMFETFNTP	= 116 - 130
25,	QIMFETFNTPAMYVA	= 121 - 135
26,	TFNTPAMYVAIQAVL	= 126 - 140
27,	AMYVAIQAVLSLYAS	= 131 - 145
28,	IQAVLSLYASGRTTG	= 136 - 150
29,	SLYASGRTTGIVMDS	= 141 - 155
30,	GRTTGIVMDSGDGVT	= 146 - 160
31,	IVMDSGDGVTHTVPI	= 151 - 165
32,	GDGVTHVPIYEGYA	= 156 - 170
33,	HTVPIYEGYALPHAI	= 161 - 175
34,	YEGYALPHAILRLDL	= 166 - 180
35,	LPHAILRLDLAGRDL	= 171 - 185
36,	LRLDLAGRDLTDYLM	= 176 - 190
37,	AGRDLTDYLMKILTE	= 181 - 195
38,	TDYLMKILTERGYSF	= 186 - 200
39,	KILTERGYSFTTTAE	= 191 - 205
40,	RGYSFTTTAEREIVR	= 196 - 210
41,	TTTAEREIVRDIKEK	= 201 - 215
42,	REIVRDIKEKLCYVA	= 206 - 220
43,	DIKEKLCYVALDFEQ	= 211 - 225
44,	LCYVALDFEQEMATA	= 216 - 230

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45, LDQEDEMATAASSSS	= 221 - 235
46, EMATAASSSSLEKSY	= 226 - 240
47, ASSSLEKSYELPDG	= 231 - 245
48, LEKSYELPDGQVITI	= 236 - 250
49, ELPDGQVITIGNERF	= 241 - 255
50, QVITIGNERFRCPEA	= 246 - 260
51, GNERFRCPEALFQPS	= 251 - 265
52, RCPEALFQPSFLGME	= 256 - 270
53, LFQPSFLGMESCGIH	= 261 - 275
54, FLGMESCGIHETTFN	= 266 - 280
55, SCGIHETTFNSIMKC	= 271 - 285
56, ETTFNSIMKCDVDIR	= 276 - 290
57, SIMKCDVDIRKDLYA	= 281 - 295
58, DVDIRKDLYANTVLS	= 286 - 300
59, KDLYANTVLSGGTTM	= 291 - 305
60, NTVLSGGTTMYPGIA	= 296 - 310
61, GGTTMYPGIADRMQK	= 301 - 315
62, YPGIADRMQKEITAL	= 306 - 320
63, DRMQKEITALAPSTM	= 311 - 325
64, EITALAPSTMKIKII	= 316 - 330
65, APSTMKIKIIAPPER	= 321 - 335
66, KIKIIAPPERKYSVW	= 326 - 340
67, APPERKYSVWIGGSI	= 331 - 345
68, KYSVWIGGSILASLS	= 336 - 350
69, IGGSILASLSTFQQM	= 341 - 355
70, LASLSTFQQMWISKQ	= 346 - 360
71, TFQQMWISKQYEDES	= 351 - 365
72, WISKQYEDESGPSIV	= 356 - 370
73, EYDESGPSIVHRKCF	= 361 - 375
74, GGGGGGPSIVHRKCF	= 366 - 375
75, GGGGGGGGGHHRKCF	= 371 - 375

Other peptides to include:

76, KYSVWIGGSILASLS

alpha helix in subdomain 1 of rabbit alpha actin-contains  
two hydrophobic residues accessible to solvent  
(residues S338 - S348)

77, PRHQGVGMVGMGQKDS

loop in subdomain 2 of rabbit alpha actin-major  
interaction site with DNase I  
(residues P38 - S52)

78, IVLDSGDGVTNVPI

beta stands in subdomain 3 of rabbit alpha actin  
(residues G150 - Y166)

79, LVCDNGSGLVKAGFA

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analogous beta strand motif in subdomain 1 of rabbit alpha actin  
(residues L8 - F21)

80, LFQPSFIGMESAGIH  
loop in subdomain 4 of rabbit alpha actin-involved in contact across helix axis in F-actin  
(residues F262 - L274)

81, TTAEREIVRDIKEKL  
Alpha helix in subdomain 4 of rabbit alpha actin-minor interaction site with DNase I  
(residues T203 - L216)

82, YVGDEAQSKRGILTL  
beta alpha beta unit in subdomain 2 of rabbit alpha actin-minor interaction site with DNase I/  
hexokinase-like unit  
(residues K61 - L65)

83, VMSGGTTMYPGIADR  
loop in subdomain 3 of rabbit alpha actin-forms pocket for adenine base of nucleotide  
(residues S300 - I309)

84, KIKIIAPPERKYSVW  
beta strand and loop in subdomain 3 of rabbit alpha actin-forms pocket for adenine base of nucleotide  
(residues K328 - S338)

85, GFAGDDAPRAVFPsi  
loop in subdomain 1 of rabbit alpha actin-central contact region of myosin on 'flat' side of actin  
(residues F21 - P32)

86, YNELRVAPEEHPTLL  
loop in subdomain 1 of rabbit alpha actin-contact region of myosin on 'flat' side of actin  
(residues N92 - T103)

87, TFOQMWITKQEYDEA  
alpha helices in subdomain 1 of rabbit alpha actin-bind myosin chains  
(residues S348 - A365)

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88, DEDETTALVCDNGSG

N-terminal 15 residues of rabbit alpha actin-important in  
binding myosin  
(residues D1 - G15)

89, EYDEAGPSIVHRKCF

C-terminal 15 residues of rabbit alpha actin  
(residues E361 - F375)

90, SKQEYDESGPSIVHR

truncated C-terminus of mouse beta actin  
(residues S358 - R372)

91, ILTERGYSFVTTAER

loop in subdomain 4 of rabbit alpha actin-analagous to  
DNase I-binding loop in subdomain 2  
(residues T194 - T203)

92, ALDFENEMATAASSS

alpha helix flanked by loops in subdomain 4 of rabbit  
alpha actin  
(residues F223 - A230)

93, WDDMEKIWHHTFYNE

alpha helix in subdomain 1 of rabbit alpha actin  
(residues W79 - N92)

94, +ve control for 91a = STDLVAKLRAFHNEA